Department
of
Defense

DoD Transportation Electronic Data Interchange (EDI) Convention

ASC X12 Transaction Set 214 Motor Carrier Shipment Status (Version 004010)

FINAL DRAFT

April 2001

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1.0 INTRODUCTION

This implementation convention (IC) describes the standard or convention Department of Defense (DoD) will use to process the Motor Carrier Shipment Status Message (ASC ANSI 214).

For further information about the Defense transportation EDI program, contact the:

United States Transportation Command
TCJ4-LP
508 Scott Drive
Scott Air Force Base, IL 62225-7001

To obtain DoD conventions or ASC X12 guidance or to recommend DoD conventions or ASC X12 maintenance, contact the:

Defense Logistics Management Standards Office
Attn: DLMSO
8725 John J. Kingman Road
Ft. Belvoir VA 22060-6217

For the most recent publication, go to the World-Wide Web at http://www.lmi.org/dtedi/.

[Instructions: At the web location, select the IC Navigator Button. Choose the 'ICs Completed' menu and select the desired Implementation Convention document. That document is available in PDF format and may be downloaded or printed.]

Who Needs to Use This Document

Computer programmers use this document to identify the data requirements for populating an EDI transaction.

Why Use a Convention

Trading partners can populate EDI transaction sets in several ways. A convention defines the rules for filling in or "populating" an EDI transaction. Following a convention ensures that trading partners will encounter fewer data quality problems during development and maintenance of EDI systems.

Contents

Additional sections are included in this document.

- Section 2.0, Control Segments, identifies the specific data requirements for formatting the EDI interchange control segments that envelop all EDI transactions.
- Section 3.0, Transaction Set Profile, lists the layout of the target transaction set by segment and data element. Identified along side each transaction set data element is the IC Element Matrix index number from Section 4.0.

- Section 4.0, IC Element Matrix, identifies the application data elements trading partners need to exchange. This section can be used to map an existing application database into the transaction set.
- Other sections contain examples of hard copy documents, examples of EDI transaction sets, segment looping logic tables, and other items that serve as references for software developers.

2.0 Control Segments

Overview

This section describes the EDI control segments (interchange control and functional group segments). The control segment information was derived from the ASC X12 Standards Draft Version 4 Release 1 (004010).

Purpose

This section identifies the specific data requirements for formatting the EDI control segments when transmitting and receiving EDI transactions. The format and data content of the control segments are usually managed by EDI translation software. The data requirements described herein should be used to set control segment formats when installing or initializing translation software for transmission and reception of EDI transactions.

Contents

Two items are included in this section.

- Interchange Control Segment Hierarchy, identifies the control segments in their order of occurrence in an EDI communications interchange.
- DoD Convention ASC X12 Control Segment, which presents a detailed description of the DoD's data conventions for formatting EDI standard control segments.

Special Instructions

Any unique eight-bit (byte) character could serve as data element separator, segment terminator, or subelement separator, provided each character is disjoint from all data elements within an interchange and that these do not conflict with telecommunications protocols necessary to the transmission of the interchange. The following recommended values conform to information published in Electronic Data Interchange, X12 Standards, Interchange Control Structures, Section 4.3 Delimiter Specifications.

DATA ELEMENT SEPARATOR

While the data element separator is graphically displayed as an asterisk (*) or a tilde (~) in ASC X12 documentation, it is the value employed in the fourth byte of an interchange envelope that actually assigns the separator that the translators will use throughout an interchange. Any unique eight-bit (byte) character could serve as data element separator, segment terminator, or subelement separator, provided each character is disjoint from all data elements within an interchange and that these do not conflict with telecommunications protocols necessary to the transmission of the interchange.

ASC X12 recommends the ASCII character with hexadecimal value "1D" for use as the data element separator (gs). These values conform to information published in Electronic Data Interchange, X12 Standards, Interchange Control Structures, Section 4.3 Delimiter Specifications.

SUBELEMENT SEPARATOR

The ISA segment provides a discrete element (ISA 16) for defining the subelement separator within an interchange. Although designated as reserved for future expansion Version 4 Release 1, a value in ISA 16 is required.

ASC X12 recommends the ASCII character with hexadecimal value "IC" for use as the segment (fs) terminator.

SEGMENT TERMINATOR

Likewise, the control envelope establishes the byte value used for segment termination within an interchange. ASC X12 documentation usually portrays this as a new line (n/l character, but the actual segment terminator for an interchange will be the byte value occurring immediately following the ISA16 segment.

ASC X12 recommends the ASCII character with hexadecimal value "IC" for use as the segment (fs) terminator

GS01 CODE VALUE

Use code value QM – Transportation Carrier Shipment Status Message (214) in the element GS01 of the control envelope for transmitting this transaction.

X12 PUBLICATION

See ASC X12 Electronic Data Interchange X12 Draft Version 4 Release 1 Standards, Document Number: ASC X12S/97-372, for complete 004010 version/release control segment specifications.

3.0 Standard Implementation Convention

This section presents the DoD's convention for generating Motor Carrier Shipment Status Message using the *ASC X12.214* Transaction Set 214 Version 004010.

Symbols that appear in the Data Element Summary to the left of each segment reference designator (Ref. Des.) define implementation convention usage for the DoD. These designations may differ from X12 convention attributes appearing in the right-hand column of the Data Element Summary and should be interpreted as follows:

[blank] - Segment or data element may be used optionally

M - X12 standards designate mandatory use of segment or data element

>> - Segment or data element is mandatory for DTEDI use

X - Segment or data element is not used

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214 Transportation Carrier Shipment Status Message

Functional Group ID=QM

Introduction:

This Draft Standard for Trial Use contains the format and establishes the data contents of the Transportation Carrier Shipment Status Message Transaction Set (214) for use within the context of an Electronic Data Interchange (EDI) environment. This transaction set can be used by a transportation carrier to provide shippers, consignees, and their agents with the status of shipments in terms of dates, times, locations, route, identifying numbers, and conveyance.

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
M	010	ST	Transaction Set Header	M	1		
M	020	B10	Beginning Segment for Transportation Carrier Shipment Status Message	M	1		
	030	L11	Business Instructions and Reference Number	O	300		
Not Used	035	MAN	Marks and Numbers	O	9999		
	040	K1	Remarks	O	10		
			LOOP ID - 0100			10	
Must Use	050	N1	Name	O	1		
	060	N2	Additional Name Information	O	1		
	070	N3	Address Information	O	2		
Must Use	080	N4	Geographic Location	O	1		
Not Used	090	G61	Contact	O	1		
Not Used	100	G62	Date/Time	O	1		n1
	110	L11	Business Instructions and Reference Number	O	10		
	120	MS3	Interline Information	O	12		
			LOOP ID - 0200			999999	
Must Use	130	LX	Assigned Number	O	1		
			LOOP ID - 0205			10	
Must Use	140	AT7	Shipment Status Details	O	1		
	143	MS1	Equipment, Shipment, or Real Property Location	O	1		
	146	MS2	Equipment or Container Owner and Type	O	1		
	150	L11	Business Instructions and Reference Number	O	10		
Not Used	155	MAN	Marks and Numbers	O	9999		
	160	Q7	Lading Exception Code	O	10		
	170	K1	Remarks	O	10		
	180	AT5	Bill of Lading Handling Requirements	O	10		
	200	AT8	Shipment Weight, Packaging and Quantity Data	O	10		
			LOOP ID - 0210			999999	

Not Used	210	CD3	Carton (Package) Detail	O	1		n2
Not Used	220	L11	Business Instructions and Reference Number	O	20		
			LOOP ID - 0215			10	
Not Used	230	AT7	Shipment Status Details	O	1		
Not Used	233	MS1	Equipment, Shipment, or Real Property Location	O	1		
Not Used	236	MS2	Equipment or Container Owner and Type	O	1		
Not Used	240	NM1	Individual or Organizational Name	O	1		
Not Used	250	Q7	Lading Exception Code	O	10		
Not Used	260	AT8	Shipment Weight, Packaging and Quantity Data	O	1		
Not Used	265	MAN	Marks and Numbers	O	9999		
			LOOP ID - 0220			999999	
Not Used	270	N1	Name	O	1		
Not Used	280	N2	Additional Name Information	O	1		
Not Used	290	N3	Address Information	O	3		
Not Used	300	N4	Geographic Location	O	1		
Not Used	310	L11	Business Instructions and Reference Number	O	10		
			LOOP ID - 0230			999999	
Not Used	320	PRF	Purchase Order Reference	O	1		
			LOOP ID - 0231			999999	
Not Used	330	N1	Name	O	1		
Not Used	340	N2	Additional Name Information	O	1		
Not Used	350	N3	Address Information	O	2		
Not Used	360	N4	Geographic Location	O	1		
Not Used	370	L11	Business Instructions and Reference Number	O	10		
			LOOP ID - 0233			999999	
Not Used	380	CD3	Carton (Package) Detail	O	1		
Not Used	390	L11	Business Instructions and Reference Number	O	20		
			LOOP ID - 0240			10	
Not Used	400	AT7	Shipment Status Details	O	1		
Not Used	402	MS1	Equipment, Shipment, or Real Property Location	O	1		
Not Used	404	MS2	Equipment or Container Owner and Type	O	1		
Not Used	405	MAN	Marks and Numbers	O	9999		
			LOOP ID - 0250			999999	
Not Used	410	SPO	Shipment Purchase Order Detail	O	1		
Not Used	420	SDQ	Destination Quantity	O	10		
			LOOP ID - 0260			>1	
Not Used	423	EFI	Electronic Format Identification	O	1		
Not Used	426	BIN	Binary Data	M	1		
M	610	SE	Transaction Set Trailer	M	1		

Transaction Set Notes

1. Status and appointment dates and times shall not be transmitted in the G62 segment.

2. Loops 0210, 0215 and 0220 shall be used in conjunction with loop 0200 to convey status for small package carrier shipments.

Segment: **ST** **Transaction Set Header**
Position: 010
Loop:
Level:
Usage: Mandatory
Max Use: 1
Purpose: To indicate the start of a transaction set and to assign a control number
Syntax Notes:
Semantic Notes: **1** The transaction set identifier (ST01) is used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the Invoice Transaction Set).
Comments:
Notes: [001] ST SEGMENT - Motor Carrier Shipment Status Header (DG 10)

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**ST01**	**143**	**Transaction Set Identifier Code** Code uniquely identifying a Transaction Set [002] Transaction Set Identifier Code (DG 10) 214 Transportation Carrier Shipment Status Message [002] Transportation Carrier Shipment Status Message	**M ID 3/3**
M	**ST02**	**329**	**Transaction Set Control Number** Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set [003] Transaction Set Control Number (DG 10) Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set. The application and structure of the control number must be agreed upon between trading partners. (For example, some applications use all nine digits where the first five might indicate a group control number and the last four represent the sequence of the transaction set within the functional group. Also, the entire nine digit field may simply represent the sequence of the transaction set generated by a trading partner.)	**M AN 4/9**

Segment: **B10** **Beginning Segment for Transportation Carrier Shipment Status Message**
Position: 020
Loop:
Level:
Usage: Mandatory
Max Use: 1
Purpose: To transmit identifying numbers and other basic data relating to the transaction set
Syntax Notes:
1 At least one of B1001 or B1006 is required.
2 Only one of B1001 or B1005 may be present.
3 If either B1005 or B1006 is present, then the other is required.
Semantic Notes:
1 B1001 is the carrier assigned reference number.
2 B1007 indicates if the reference numbers included in this transmission were transmitted to the carrier via EDI or key entered by the carrier. A "Y" indicates that the carrier received the reference numbers in an EDI transmission; an "N" indicates that the carrier did not receive the reference numbers in an EDI transmission and key entered the data from a shipper supplied document.
Comments:
1 B1001 is the carrier's PRO (invoice number) that identifies the shipment.
2 B1003 is required when used in Transaction Set 214.
3 B1006 is the carrier assigned bar code identification or another carrier assigned shipment identification, such as a manifest number.
Notes: [004] B10 SEGMENT - Carrier Shipment ID (DG 10)

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
	B1001	**127**	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier [005] Carrier Shipment ID (DG 10) Only the carrier's PRO number will appear in B1001. Use B1006 if shipment is identified by air or rail waybill number. CONDITION: Use of either B1001 or B1006 is mandatory.	**X**	**AN 1/30**
>>	**B1002**	**145**	**Shipment Identification Number** Identification number assigned to the shipment by the shipper that uniquely identifies the shipment from origin to ultimate destination and is not subject to modification; (Does not contain blanks or special characters) [006] Government Shipment ID (DG 10) In this data element, enter the shipment ID generated by the shipper. That ID may be a lead TCN, GBL number, Velocity Number, or other type of identifier.	**O**	**AN 1/30**
M	**B1003**	**140**	**Standard Carrier Alpha Code** Standard Carrier Alpha Code [007] Standard Carrier Alpha Code (DG 10)	**M**	**ID 2/4**
X	**B1004**	**71**	**Inquiry Request Number**	**O**	**N0 1/3**

Identifying number assigned by inquirer

	B1005	**128**	**Reference Identification Qualifier**	**X**	**ID 2/3**
			Code qualifying the Reference Identification		
			[008] Reference Identification Qualifier (DG 10) Required if B1006 is used. CHANGE NOTE: Length attribute corrected.		
			AW Air Waybill Number		
			[008] Air Waybill Number		
			WY Waybill Number		
			[008] Waybill Number		
	B1006	**127**	**Reference Identification**	**X**	**AN 1/30**
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier		
			[009] Reference Identification (DG 10) Only the carrier's air or rail waybill number will appear in B1006. Use B1001 if shipment is identified by a carrier's PRO number. CONDITION: Use of either B1001 or B1006 is mandatory.		
X	**B1007**	**1073**	**Yes/No Condition or Response Code**	**O**	**ID 1/1**
			Code indicating a Yes or No condition or response		
			Refer to 004010 Data Element Dictionary for acceptable code values.		

Segment: **L11** **Business Instructions and Reference Number**
Position: 030
Loop:
Level:
Usage: Optional
Max Use: 300
Purpose: To specify instructions in this business relationship or a reference number
Syntax Notes: **1** At least one of L1101 or L1103 is required.
2 If either L1101 or L1102 is present, then the other is required.
Semantic Notes:
Comments:
Notes: [010] L11 SEGMENT - Additional Shipment Identifiers (DG 10)
Use this segment to report identifying numbers in addition to the shipment ID.
[013] L11 SEGMENT - Commodity Code (DG 10)
Use to report shipment commodity code if available. If multiple commodity codes apply, use this segment to identify one commodity code (prevailing or lead commodity for shipment, pallet, or container).
CHANGE NOTE: Note changed per DM #444.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
>>	**L1101**	**127**	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier [011] Additional Shipment Identifier (DG 10) [014] Commodity Identification (DG 10)	**X AN 1/30**
>>	**L1102**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification [012] Additional Shipment Identifier Qualifier (DG 10) Use code value 'BM' for Commercial Bill of Lading as well as Government Bill of Lading. CHANGE NOTE: Code values 'IT' and 'ZZ' deleted per DM #444. [015] Commodity Identification Qualifier (DG 10)	**X ID 2/3**

BL	Government Bill of Lading
	[012] Government Bill of Lading
BM	Bill of Lading Number
	[012] Bill of Lading Number
C7	Contract Line Item Number
	[012] Contract Line Item Number
CH	Customer catalog number
	[015] Customer catalog number
CT	Contract Number
	[012] Contract Number
PG	Product Group

				[015] Product Group	
			PO	Purchase Order Number	
				[012] Purchase Order Number	
			RQ	Purchase Requisition Number	
				[012] Purchase Requisition Number	
			STR	Standard Transportation Commodity Code (STCC) Replacement Code	
				[015] Standard Transportation Commodity Code (STCC) Replacement Code	
			TG	Transportation Control Number (TCN)	
				[012] Transportation Control Number (TCN)	
L1103	**352**	**Description**			**X AN 1/80**
		A free-form description to clarify the related data elements and their content			
		[016] Description (DG 10)			

Segment: **K1** **Remarks**
Position: 040
Loop:
Level:
Usage: Optional
Max Use: 10
Purpose: To transmit information in a free-form format for comment or special instruction
Syntax Notes:
Semantic Notes:
Comments:
Notes: [017] K1 SEGMENT - Additional Carrier Information
CHANGE NOTE: Segment added per DM #444.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	**K101**	**61**	**Free-Form Message**	**M**	**AN 1/30**
			Free-form information		
			[018] Free-Form Message		
	K102	**61**	**Free-Form Message**	**O**	**AN 1/30**
			Free-form information		
			[019] Free-Form Message		

Segment: **N1** **Name**
Position: 050
Loop: 0100 Optional (Must Use)
Level:
Usage: Optional (Must Use)
Max Use: 1
Purpose: To identify a party by type of organization, name, and code
Syntax Notes: **1** At least one of N102 or N103 is required.
2 If either N103 or N104 is present, then the other is required.
Semantic Notes:
Comments: **1** This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
2 N105 and N106 further define the type of entity in N101.
Notes: [020] N1 SEGMENT - Consignee Identification (DG 70)
Carriers are encouraged to provide the consignee clear text name (N102), consignee identification code (N103 + N104), consignee address information in the N3 segment, and consignee geographic location information in the N4 segment. If the carrier is unable to provide the consignee identification code, it must provide the clear text name (N102), address (N3), and geographic location information (N4).
[036] N1 SEGMENT - Shipper Identifier (DG 71)
Carriers are encouraged to provide the shipper clear text name (N102), shipper identification code (N103 + N104), shipper address information in the N3 segment, and shipper geographic location information in the N4 segment. If the carrier is unable to provide the shipper identification code, it must provide the clear text name (N102), address (N3), and geographic location information (N4).
[055] N1 SEGMENT - Party Who Signed Delivery Receipt (DG 71)

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**N101**	**98**	**Entity Identifier Code** Code identifying an organizational entity, a physical location, property or an individual [021] Consignee Identifier Code (DG 70) [056] Party Who Signed Delivery Receipt Code (DG 71) [037] Shipper Identifier Code (DG 71) CN Consignee [021] Consignee N5 Party Who Signed the Delivery Receipt [056] Party Who Signed the Delivery Receipt SH Shipper [037] Shipper	**M ID 2/3**
	N102	**93**	**Name** Free-form name [022] Consignee Name (DG 70)	**X AN 1/60**

Carriers are encouraged to provide this data if it is available. It must be provided if an Identification Code is not provided at N103 and N104.
[038] Shipper Name (DG 71)
Carriers are encouraged to provide this data if it is available. It must be provided if an Identification Code is not provided at N103 and N104.
[057] Party Who Signed Delivery Receipt (DG 71)
Required to satisfy syntax.

	N103	**66**	**Identification Code Qualifier**	**X**	**ID 1/2**

Code designating the system/method of code structure used for Identification Code (67)

[023] Identification Code Qualifier (DG 70)
Required if N104 is used.
[039] Identification Code Qualifier (DG 71)
Required if N104 is used.

1	D-U-N-S Number, Dun & Bradstreet
	[023] D-U-N-S Number [039] D-U-N-S Number
9	D-U-N-S+4, D-U-N-S Number with Four Character Suffix
	[023] D-U-N-S+4 [039] D-U-N-S+4
10	Department of Defense Activity Address Code (DODAAC)
	[023] Department of Defense Activity Address Code (DODAAC) [039] Department of Defense Activity Address Code (DODAAC)
27	Government Bill Of Lading Office Code (GBLOC)
	[023] Government Bill Of Lading Office Code (GBLOC) [039] Government Bill Of Lading Office Code (GBLOC)
33	Commercial and Government Entity (CAGE)
	[023] Commercial and Government Entity (CAGE) [039] Commercial and Government Entity (CAGE)

N104	**67**	**Identification Code**	**X**	**AN 2/80**

Code identifying a party or other code

[024] Consignee DODAAC/GBLOC/CAGE/D-U-N-S/D-U-N-S+4 (DG 70)
Carriers are encouraged to provide this data if it is available.
[040] Shipper DODAAC/GBLOC/CAGE/D-U-N-S/D-U-N-S+4 (DG 71)
Carriers are encouraged to provide this data if it is available.

X	**N105**	**706**	**Entity Relationship Code**	**O**	**ID 2/2**

Code describing entity relationship

Refer to 004010 Data Element Dictionary for acceptable code values.

X	**N106**	**98**	**Entity Identifier Code**	**O**	**ID 2/3**

Code identifying an organizational entity, a physical location, property or an individual

Refer to 004010 Data Element Dictionary for acceptable code values.

Segment: **N2** **Additional Name Information**
Position: 060
Loop: 0100 Optional (Must Use)
Level:
Usage: Optional
Max Use: 1
Purpose: To specify additional names or those longer than 35 characters in length
Syntax Notes:
Semantic Notes:
Comments:
Notes: [025] N2 SEGMENT - Consignee Additional Name (DG 70)
[041] N2 SEGMENT - Shipper Additional Name (DG 71)

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	**N201**	**93**	**Name** Free-form name [026] Consignee Additional Name (DG 70) [042] Shipper Additional Name (DG 71)	**M**	**AN 1/60**
X	**N202**	**93**	**Name** Free-form name	**O**	**AN 1/60**

Segment: **N3** **Address Information**
Position: 070
Loop: 0100 Optional (Must Use)
Level:
Usage: Optional
Max Use: 2
Purpose: To specify the location of the named party
Syntax Notes:
Semantic Notes:
Comments:
Notes: [027] N3 SEGMENT - Consignee Address Information (DG 70)
[043] N3 SEGMENT - Shipper Address Information (DG 71)

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**N301**	**166**	**Address Information** Address information [028] Consignee Address Information (DG 70) [044] Shipper Address Information (DG 71)	**M AN 1/55**
X	**N302**	**166**	**Address Information** Address information	**O AN 1/55**

Segment: **N4** **Geographic Location**
Position: 080
Loop: 0100 Optional (Must Use)
Level:
Usage: Optional (Must Use)
Max Use: 1
Purpose: To specify the geographic place of the named party
Syntax Notes: **1** If N406 is present, then N405 is required.
Semantic Notes:
Comments: **1** A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.
2 N402 is required only if city name (N401) is in the U.S. or Canada.
Notes: [029] N4 SEGMENT - Consignee Geographic Location Information (DG 70)
If shipment is to a location other than the U.S. or Canada, carrier must provide the Consignee City Name (N401) and Consignee Country Code (N404). If shipment is to a location within the U.S. or to Canada, carrier must provide either the Consignee City Name (N401) and Consignee City/Province Code (N403) or the Consignee SPLC Qualifier (N405) and Consignee SPLC (N406).
[045] N4 SEGMENT - Shipper Geographic Location Information (DG 71)
If shipment is OCONUS, carrier must provide the Shipper City Name (N401) and Shipper Country Code (N404). If shipment is CONUS or Canadian, carrier must provide either the Shipper City Name (N401) and Shipper City/Province Code (N402) or the Shipper SPLC Qualifier (N405) and Shipper SPLC (N406).

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
N401	**19**	**City Name** Free-form text for city name [030] Consignee City Name (DG 70) Mandatory for all shipments to locations other than the U.S. and Canada. It is also mandatory for shipments within the U.S. and to Canada if SPLC is not provided in N405 and N406. [046] Shipper City Name (DG 71) Mandatory for all shipments that originate outside the U.S. and Canada. It is also mandatory for shipments that originate within the U.S. and Canada if SPLC is not provided in N405 and N406.	**O AN 2/30**
N402	**156**	**State or Province Code** Code (Standard State/Province) as defined by appropriate government agency [031] Consignee State or Province Code (DG 70) Mandatory for shipments to a U.S. or Canadian Province consignee if SPLC is not provided in N405 and N406. [047] Shipper State or Province Code (DG 71) Mandatory for all shipments that originate within the U.S. or Canada if SPLC is not provided in N405 and N406.	**O ID 2/2**
N403	**116**	**Postal Code**	**O ID 3/15**

Code defining international postal zone code excluding punctuation and blanks (zip code for United States)

[032] Consignee Zip/Postal Code (DG 70)
[048] Shipper Zip/Postal Code (DG 71)

N404 26 Country Code O ID 2/3

Code identifying the country

[033] Consignee Country Code (DG 70)
Mandatory for all shipments to a location outside the U.S. or Canada. Valid country codes are found in Codes for Representation of Names of Countries, ISO 3166- (Latest Release). The publication may be obtained from:
American National Standards Institute
11 West 42nd Street, 13 Floor
New York, NY 10036.
[049] Shipper Country Code (DG 71)
Mandatory for all shipments that originate at a location outside the U.S. or Canada. Valid country codes are found in Codes for Representation of Names of Countries, ISO 3166- (Latest Release). The publication may be obtained from:
American National Standards Institute
11 West 42nd Street, 13 Floor
New York, NY 10036.

N405 309 Location Qualifier X ID 1/2

Code identifying type of location

[034] Consignee SPLC Qualifier (DG 70)
Required if N406 is used.
[050] Shipper SPLC Qualifier (DG 71)
Required if N406 is used.

SL	U.S. SPLC

[034] U.S. SPLC
[050] U.S. SPLC

N406 310 Location Identifier O AN 1/30

Code which identifies a specific location

[035] Consignee SPLC (DG 70)
Carriers are encouraged to provide this data on shipments to locations within the U.S. and Canada.
[051] Shipper SPLC (DG 71)
Carriers are encouraged to provide this data on shipments that originate outside the U.S. or Canada.

Segment: **L11** **Business Instructions and Reference Number**
Position: 110
Loop: 0100 Optional (Must Use)
Level:
Usage: Optional
Max Use: 10
Purpose: To specify instructions in this business relationship or a reference number
Syntax Notes: **1** At least one of L1101 or L1103 is required.
2 If either L1101 or L1102 is present, then the other is required.
Semantic Notes:
Comments:
Notes: [052] L11 SEGMENT - Internal Customer Number (DG 71)
Use this segment to report carrier's internal customer account number.
CHANGE NOTE: Segment added per DM #444.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
>>	**L1101**	**127**	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier [053] Internal Customer Number (DG 71) CHANGE NOTE: Requirement attribute corrected.	**X AN 1/30**
>>	**L1102**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification [054] Internal Customer Number (DG 71) CHANGE NOTE: Requirement and length attributes corrected. IT Internal Customer Number [054] Internal Customer Number	**X ID 2/3**
X	**L1103**	**352**	**Description** A free-form description to clarify the related data elements and their content	**X AN 1/80**

Segment: **MS3** **Interline Information**
Position: 120
Loop:
Level:
Usage: Optional
Max Use: 12
Purpose: To identify the interline carrier and relevant data
Syntax Notes: **1** If MS305 is present, then MS303 is required.
Semantic Notes: **1** MS301 is the Standard Carrier Alpha Code (SCAC) of the interline carrier.
2 MS303 is the city where the interline was performed.
Comments:
Notes: [058] MS3 SEGMENT - LTL Interline Information (DG 10)
This segment is required if the LTL carrier can provide the interline information. The carrier currently reporting status will provide the entire routing sequence up to and including the time at which it reports status. For example, it needs to list all the carriers that handled the shipment along the route.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**MS301**	**140**	**Standard Carrier Alpha Code** Standard Carrier Alpha Code [059] Standard Carrier Alpha Code (DG 10)	**M ID 2/4**
M	**MS302**	**133**	**Routing Sequence Code** Code describing the relationship of a carrier to a specific shipment movement [060] Routing Sequence Code (DG 10) 1 1st Carrier after Origin Carrier [060] 1st Carrier after Origin Carrier 2 2nd Carrier after Origin Carrier [060] 2nd Carrier after Origin Carrier 3 3rd Carrier after Origin Carrier [060] 3rd Carrier after Origin Carrier B Origin/Delivery Carrier (Any Mode) [060] Origin/Delivery Carrier (Any Mode) O Origin Carrier (Air, Motor, or Ocean) [060] Origin Carrier (Air, Motor, or Ocean)	**M ID 1/2**
	MS303	**19**	**City Name** Free-form text for city name [061] City Name (DG 10) Provide city name or rail head of interline transfer point where identified carrier receives shipment, if available.	**X AN 2/30**
	MS304	**91**	**Transportation Method/Type Code**	**O ID 1/2**

Code specifying the method or type of transportation for the shipment

[062] Transportation Method/Type Code (DG 10)
Refer to DE 91 for applicable code values.

MS305	**156**	**State or Province Code**	**O**	**ID 2/2**

Code (Standard State/Province) as defined by appropriate government agency

[063] State or Province Code (DG 10)
Provide this data if available.

Segment: **LX** **Assigned Number**
Position: 130
Loop: 0200 Optional (Must Use)
Level:
Usage: Optional (Must Use)
Max Use: 1
Purpose: To reference a line number in a transaction set
Syntax Notes:
Semantic Notes:
Comments:
Notes: [064] LX SEGMENT - Shipment Status Event Loop (DG 100)
At least one occurrence of the LX loop needs to appear. Repeat the LX loop for each shipment status event. Upon reporting pickup status, the carrier is encouraged to report estimated delivery date. This calls for the carrier to generate two LX loops, one for each status event.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**LX01**	**554**	**Assigned Number** Number assigned for differentiation within a transaction set [065] Assigned Number (DG 100) This is a sequential number starting with one and incrementing by one for every occurrence of the LX segment.	**M N0 1/6**

Segment: **AT7** **Shipment Status Details**
Position: 140
Loop: 0205 Optional (Must Use)
Level:
Usage: Optional (Must Use)
Max Use: 1
Purpose: To specify the status of a shipment, the reason for that status, the date and time of the status and the date and time of any appointments scheduled.
Syntax Notes:
1 Only one of AT701 or AT703 may be present.
2 If either AT701 or AT702 is present, then the other is required.
3 If either AT703 or AT704 is present, then the other is required.
4 If AT706 is present, then AT705 is required.
5 If AT707 is present, then AT706 is required.
Semantic Notes:
1 If AT701 is present, AT705 is the date the status occurred. If AT703 is present, AT705 is a date related to an appointment.
If AT701 is present, AT706 is the time of the status. If AT703 is present, AT706 is the time of the appointment.
2 If AT707 is not present then AT706 represents local time of the status.
Comments:
Notes: [066] AT7 SEGMENT - Shipment Status (DG 110)
Use one occurrence of the AT7 loop per LX loop.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
>>	**AT701**	**1650**	**Shipment Status Code** Code indicating the status of a shipment [067] Shipment Status Code (DG 110) For shipments that don't experience any other status event identified in this code list during a 24 hour period, carriers are requested, if able, to report status ' X6 - En Route to Delivery Location'. When using shipment status code value 'X6', report the location of the shipment using the MS1 segment by either the city name/state/country code or longitude/latitude codes. Use migration code value 'CT' to indicate 'Customs Release'. CHANGE NOTE: Code value 'K1' added per DM #444. Migration code value 'CT' added per DM #445. A9 Shipment Damaged [067] Shipment Damaged AF Carrier Departed Pick-up Location with Shipment [067] Carrier Departed Pick-up Location with Shipment AG Estimated Delivery [067] Estimated Delivery AH Attempted Delivery [067] Attempted Delivery	**X ID 2/2**

AI	Shipment has been Reconsigned	
	[067] Shipment has been Reconsigned	
AM	Loaded on Truck	
	[067] Loaded on Truck	
BC	Storage in Transit	
	[067] Storage in Transit	
CA	Shipment Cancelled	
	[067] Shipment Cancelled	
D1	Completed Unloading at Delivery Location	
	[067] Completed Unloading at Delivery Location	
J1	Delivered to Connecting Line	
	[067] Delivered to Connecting Line	
K1	Arrived at Customs	
	[067] Arrived at Customs	
L1	Loading	
	[067] Loading	
P1	Departed Terminal Location	
	[067] Departed Terminal Location	
S1	Trailer Spotted at Consignee's Location	
	[067] Trailer Spotted at Consignee's Location	
SD	Shipment Delayed	
	[067] Shipment Delayed	
X1	Arrived at Delivery Location	
	[067] Arrived at Delivery Location	
X2	Estimated Date and/or Time of Arrival at Consignee's Location	
	[067] Estimated Date and/or Time of Arrival at Consignee's Location	
X4	Arrived at Terminal Location	
	[067] Arrived at Terminal Location	
X5	Arrived at Delivery Location Loading Dock	
	[067] Arrived at Delivery Location Loading Dock	
X6	En Route to Delivery Location	
	[067] En Route to Delivery Location	

>>	**AT702**	**1651**	**Shipment Status or Appointment Reason Code**	**X**	**ID**	**2/2**

Code indicating the reason a shipment status or appointment reason was transmitted

[068] Shipment Status or Appointment Reason Code (DG 110)
If generating a "normal status" message, use code value 'NS'. Otherwise, use the appropriate status reason code from code list 1651.

NS	Normal Status
	[068] Normal Status

X	**AT703**	**1652**	**Shipment Appointment Status Code**	**X**	**ID 2/2**
			Code indicating the status of an appointment to pick-up or deliver a shipment Refer to 004010 Data Element Dictionary for acceptable code values.		
X	**AT704**	**1651**	**Shipment Status or Appointment Reason Code**	**X**	**ID 2/2**
			Code indicating the reason a shipment status or appointment reason was transmitted Refer to 004010 Data Element Dictionary for acceptable code values.		
>>	**AT705**	**373**	**Date**	**X**	**DT 8/8**
			Date expressed as CCYYMMDD [069] Date of Status Event (DG 110) This is the date the status event occurred.		
	AT706	**337**	**Time**	**X**	**TM 4/8**
			Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99) [070] Time of Status Event (DG 110) Time status is mandatory for actual events and recommended for all other. This is the time status event occurred. This is local unless identified with a specific time zone in AT707. Use HHMM format.		
	AT707	**623**	**Time Code**	**O**	**ID 2/2**
			Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an indication in hours in relation to Universal Time Coordinate (UTC) time; since + is a restricted character, + and - are substituted by P and M in the codes that follow [071] Time Code (DG 110) Required if AT706 is used. The carrier will report code LT (Local Time) unless it is capable of reporting the time code of the location where the event occurred. The time code should be Greenwich Mean Time (GMT) or the time zone where the event occurred. If the zone or GMT are unavailable, carrier should use local time code.		
			CD Central Daylight Time [071] Central Daylight Time		
			CS Central Standard Time [071] Central Standard Time		
			CT Central Time [071] Central Time		
			ED Eastern Daylight Time [071] Eastern Daylight Time		
			ES Eastern Standard Time [071] Eastern Standard Time		

ET	Eastern Time
	[071] Eastern Time
GM	Greenwich Mean Time
	[071] Greenwich Mean Time
LT	Local Time
	[071] Local Time
MD	Mountain Daylight Time
	[071] Mountain Daylight Time
MS	Mountain Standard Time
	[071] Mountain Standard Time
MT	Mountain Time
	[071] Mountain Time
PD	Pacific Daylight Time
	[071] Pacific Daylight Time
PS	Pacific Standard Time
	[071] Pacific Standard Time
PT	Pacific Time
	[071] Pacific Time

Segment: **MS1** **Equipment, Shipment, or Real Property Location**
Position: 143
Loop: 0205 Optional (Must Use)
Level:
Usage: Optional
Max Use: 1
Purpose: To specify the location of a piece of equipment, a shipment, or real property in terms of city and state or longitude and latitude
Syntax Notes:
1 If MS101 is present, then at least one of MS102 or MS103 is required.
2 Only one of MS101 or MS104 may be present.
3 If MS102 is present, then MS101 is required.
4 If MS103 is present, then MS101 is required.
5 If either MS104 or MS105 is present, then the other is required.
6 If MS106 is present, then MS104 is required.
7 If MS107 is present, then MS105 is required.
Semantic Notes:
1 MS104 is the longitude expressed in Degrees, Minutes, and Seconds.
2 MS105 is the latitude expressed in Degrees, Minutes, and Seconds.
3 MS106 may only be 'E' or 'W'.
4 MS107 may only be 'N' or 'S'.
Comments:
Notes:
[072] MS1 SEGMENT - Status Location (DG 110)
This segment is required for all status events (AT701) except for code values 'A9', 'AG', and 'AI'.
When using periodic reporting procedures, indicate location using MS104, 05, 06, and 07. Otherwise, report location using MS101, 02, and 03.
When using MS101, 02, and 03, for status events generated within CONUS and Canada, MA101 and MA102 are required.
For status events generated outside of CONUS, MS101 and MS103 are required. In either case, provide MS102, if available.
CHANGE NOTE: Attribute change per DM #444. Note added per DM #444.

Data Element Summary

Ref. Des.	Data Element	Name	Attributes	
MS101	**19**	**City Name** Free-form text for city name [073] City Name (DG 110)	**X**	**AN 2/30**
MS102	**156**	**State or Province Code** Code (Standard State/Province) as defined by appropriate government agency [074] State or Province Code (DG 110)	**X**	**ID 2/2**
MS103	**26**	**Country Code** Code identifying the country [075] Country Code (DG 110) Valid country codes are found in Codes for Representation of Names of Countries, ISO 3166- (Latest Release). The publication may be obtained	**X**	**ID 2/3**

from:
American National Standards Institute
11 West 42nd Street, 13 Floor
New York, NY 10036.

MS104 1654 Longitude Code **X ID 7/7**

Code indicating the longitude in degrees (3 positions), minutes (2 positions), and seconds (2 positions)

[076] Longitude Coordinates (DG 110)
If the carrier has implemented this technology, it is encouraged to report this data for 24 hour periodic reporting. Qualify the longitude coordinates in the MS106.

MS105 1655 Latitude Code **X ID 7/7**

Code indicating the latitude in degrees (3 positions), minutes (2 positions), seconds (2 positions)

[077] Latitude Coordinates (DG 110)
If the carrier has implemented this technology, it is encouraged to report this data for 24 hour periodic reporting. Qualify the latitude coordinates in the MS107.

MS106 1280 Direction Identifier Code **O ID 1/1**

Code identifying geographic direction

[078] Direction Identifier Code (DG 110)

E	East
	[078] East
W	West
	[078] West

MS107 1280 Direction Identifier Code **O ID 1/1**

Code identifying geographic direction

[079] Direction Identifier Code (DG 110)

N	North
	[079] North
S	South
	[079] South

Segment: **MS2** **Equipment or Container Owner and Type**
Position: 146
Loop: 0205 Optional (Must Use)
Level:
Usage: Optional
Max Use: 1
Purpose: To specify the owner, the identification number assigned by that owner, and the type of equipment
Syntax Notes: **1** If either MS201 or MS202 is present, then the other is required.
2 If MS204 is present, then MS202 is required.
Semantic Notes:
Comments: **1** MS203 identifies the type for the equipment specified in MS202.
Notes: [080] MS2 SEGMENT - Conveying Equipment Identification (DG 110)
Provide this data when conveying equipment identifiers are available.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
>>	**MS201**	**140**	**Standard Carrier Alpha Code** Standard Carrier Alpha Code [081] Standard Carrier Alpha Code (DG 110)	**X ID 2/4**
>>	**MS202**	**207**	**Equipment Number** Sequencing or serial part of an equipment unit's identifying number (pure numeric form for equipment number is preferred) [082] Equipment Number (DG 110)	**X AN 1/10**
>>	**MS203**	**40**	**Equipment Description Code** Code identifying type of equipment used for shipment [083] Equipment Description Code (DG 110) Refer to DE 40 for applicable code values. CC Container resting on a Chassis [083] Container resting on a Chassis	**O ID 2/2**
X	**MS204**	**761**	**Equipment Number Check Digit** Number which designates the check digit applied to a piece of equipment	**O N0 1/1**

Segment: **L11** **Business Instructions and Reference Number**
Position: 150
Loop: 0200 Optional (Must Use)
Level:
Usage: Optional
Max Use: 10
Purpose: To specify instructions in this business relationship or a reference number
Syntax Notes: **1** At least one of L1101 or L1103 is required.
2 If either L1101 or L1102 is present, then the other is required.
Semantic Notes:
Comments:
Notes: [084] L11 SEGMENT - Status Location Code (DG 110)
Carriers are encouraged to provide either status location SPLC or postal code data where available. This segment may occur once per shipment status event (LX Loop).
CHANGE NOTE: Position changed from 110 to 150 per DM #444. Note added 150 per DM #444.
[087] L11 SEGMENT - Stop-Off Sequence Number (DG 110)
This segment is required when providing stop-off shipment status. This segment may occur once per shipment status event (LX Loop).
CHANGE NOTE: Position changed from 30 to 150 per DM #444. Note added 150 per DM #444.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
>>	**L1101**	**127**	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier [085] SPLC or Postal Code (DG 110) [088] Stop-Off Sequence Number (DG 110) Enter stop-off sequence number.	**X AN 1/30**
	L1102	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification [089] Stop-Off Sequence Number Qualifier (DG 110) CHANGE NOTE: Missing code value added per DM #474. [086] Status Location Qualifier (DG 110) Use code value 'LU' to indicate Postal Zip Code. CHANGE NOTE: Missing code values added per DM #474.. LU Location Number [086] Location Number QN Stop Sequence Number [086] Stop Sequence Number SPL Standard Point Location Code (SPLC) [086] Standard Point Location Code (SPLC)	**X ID 2/3**

L1103	**352**	**Description**	**X**	**AN 1/80**
		A free-form description to clarify the related data elements and their content		
		[090] SPLC (DG 110)		

Segment: **Q7** **Lading Exception Code**
Position: 160
Loop: 0200 Optional (Must Use)
Level:
Usage: Optional
Max Use: 10
Purpose: To specify the status of the shipment in terms of lading exception information
Syntax Notes: **1** If Q702 is present, then Q703 is required.
Semantic Notes:
Comments:
Notes: [091] Q7 SEGMENT - Lading Information (DG 100)
The carrier is encouraged to provide this data if available. This segment may occur once per shipment status event (LX Loop).c

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**Q701**	**33**	**Lading Exception Code**	**M ID 1/1**
			Code indicating the condition of the shipment	
			[092] Lading Exception Code (DG 100)	
			A All Short	
			[092] All Short	
			D Damaged	
			[092] Damaged	
			E Entire Shipment Refused	
			[092] Entire Shipment Refused	
			O Overage	
			[092] Overage	
			P Partial Shipment	
			[092] Partial Shipment	
			W Wrong Product	
			[092] Wrong Product	
	Q702	**211**	**Packaging Form Code**	**O ID 3/3**
			Code for packaging form of the lading quantity	
			[093] Packaging Form Code (DG 100) The carrier is encouraged to provide this data if available. Refer to DE 211 for acceptable code values.	
	Q703	**80**	**Lading Quantity**	**X N0 1/7**
			Number of units (pieces) of the lading commodity	
			[094] Lading Quantity (DG 100)	

Segment: **K1** **Remarks**
Position: 170
Loop: 0200 Optional (Must Use)
Level:
Usage: Optional
Max Use: 10
Purpose: To transmit information in a free-form format for comment or special instruction
Syntax Notes:
Semantic Notes:
Comments:
Notes: [095] K1 SEGMENT - Additional Carrier Information (DG 100)
Carriers are encouraged to report information for comment or special instruction.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	**K101**	**61**	**Free-Form Message**	**M**	**AN 1/30**
			Free-form information		
			[096] Free-Form Message (DG 100)		
	K102	**61**	**Free-Form Message**	**O**	**AN 1/30**
			Free-form information		
			[097] Free-Form Message (DG 100)		

Segment: **AT5** **Bill of Lading Handling Requirements**
Position: 180
Loop: 0200 Optional (Must Use)
Level:
Usage: Optional
Max Use: 10
Purpose: To identify Bill of Lading handling and service requirements
Syntax Notes: **1** Only one of AT501 or AT503 may be present.
2 Only one of AT502 or AT503 may be present.
Semantic Notes:
Comments:
Notes: [098] AT5 SEGMENT - Special Handling (DG 100)
Carriers are encouraged to report this information if available. This segment may occur once per shipment status event (LX Loop).
CHANGE NOTE: Note added 150 per DM #444.

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
AT501	**152**	**Special Handling Code** Code specifying special transportation handling instructions [099] Special Handling Code (DG 100) Refer to DE 152 for applicable code values.	**X ID 2/3**
AT502	**560**	**Special Services Code** Code identifying the special service [100] Special Services Code (DG 100) Refer to DE 560 for applicable code values.	**X ID 2/10**
AT503	**153**	**Special Handling Description** Free-form additional description of special handling instructions to appear on printed bill if special handling code is not adequate [101] Special Handling Description (DG 100)	**X AN 2/30**

Segment: **AT8** **Shipment Weight, Packaging and Quantity Data**
Position: 200
Loop: 0200 Optional (Must Use)
Level:
Usage: Optional
Max Use: 10
Purpose: To specify shipment details in terms of weight, and quantity of handling units
Syntax Notes:
1 If any of AT801 AT802 or AT803 is present, then all are required.
2 If either AT806 or AT807 is present, then the other is required.
Semantic Notes:
1 AT804 is the quantity of handling units that are not unitized (for example a carton). When added to the quantity in AT805, it is the total quantity of handling units in the shipment.
2 AT805 is the quantity of handling units that are unitized (for example on a pallet or slip sheet). When added to the quantity in AT804 it is the total quantity of handling units for the shipment.
Comments:
Notes: [102] AT8 SEGMENT - Weight Information (DG 100)
The carrier is encouraged to provide this data if available. This segment may occur once per shipment status event (LX Loop).
CHANGE NOTE: Note added 150 per DM #444.

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
AT801	**187**	**Weight Qualifier** Code defining the type of weight [103] Weight Qualifier (DG 100) Required if AT803 is used. Use migration code value 'WX' to indicate Net Explosive Weight. CHANGE NOTE: X12 Data Maintenance will be submitted to add code value 'WX - Net Explosive Weight' to DE 187. A3 Shippers Weight [103] Shippers Weight B Billed Weight [103] Billed Weight FR Freight Weight [103] Freight Weight G Gross Weight [103] Gross Weight N Actual Net Weight [103] Actual Net Weight PA Pallet Weight [103] Pallet Weight SK Skid Weight [103] Skid Weight	**X ID 1/2**

		T	Tare Weight		
			[103] Tare Weight		
AT802	**188**	**Weight Unit Code**		**X**	**ID 1/1**
		Code specifying the weight unit			
		[104] Weight Unit Code (DG 100) Required if AT803 is used.			
		K	Kilograms		
			[104] Kilograms		
		L	Pounds		
			[104] Pounds		
		S	Short Ton		
			[104] Short Ton		
AT803	**81**	**Weight**		**X**	**R 1/10**
		Numeric value of weight			
		[105] Weight (DG 100)			
AT804	**80**	**Lading Quantity**		**O**	**N0 1/7**
		Number of units (pieces) of the lading commodity			
		[106] Lading Quantity (DG 100)			
AT805	**80**	**Lading Quantity**		**O**	**N0 1/7**
		Number of units (pieces) of the lading commodity			
		[107] Lading Quantity (DG 100)			
AT806	**184**	**Volume Unit Qualifier**		**X**	**ID 1/1**
		Code identifying the volume unit			
		[108] Volume Unit Qualifier (DG 100) Required if AT807 is used. Refer to DE 184 for applicable code values.			
AT807	**183**	**Volume**		**X**	**R 1/8**
		Value of volumetric measure			
		[109] Volume (DG 100)			

Segment: **SE** **Transaction Set Trailer**
Position: 610
Loop:
Level:
Usage: Mandatory
Max Use: 1
Purpose: To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments)
Syntax Notes:
Semantic Notes:
Comments: **1** SE is the last segment of each transaction set.
Notes: [110] SE SEGMENT - Motor Carrier Shipment Status Trailer (DG 900)

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**SE01**	**96**	**Number of Included Segments** Total number of segments included in a transaction set including ST and SE segments [111] Number of Included Segments (DG 900) Total segments in this transaction set including the ST and SE segments.	**M N0 1/10**
M	**SE02**	**329**	**Transaction Set Control Number** Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set [112] Transaction Set Control Number (DG 900) This data element ends the transaction set and should match the number that appears in the ST02 that begins the transaction set.	**M AN 4/9**

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Section 4.0

IC ELEMENT MATRIX

OVERVIEW

In order to implement an EDI transaction set, trading partners need to identify the application data elements they plan to exchange, identify where they plan to carry the data within the structure of the EDI transaction (a task commonly called mapping), identify any additional X12 data such as qualifier codes, and publish that information in an implementation convention (IC). This section contains an IC element matrix that lists that information.

PURPOSE

Using the IC element matrix will expedite mapping of an application database into a commercial EDI translation package. The application notes section below describes the application specific to this IC element matrix.

HOW TO READ THE IC ELEMENT MATRIX

To read the matrix, trading partners need to understand matrix record types, two categories of matrix information, the matrix layout, and the sort order of the matrix.

Record Types

The matrix contains two types of records: segment header records and element records.

- Segment header records begin the description of a segment. Each segment header record starts the description of a discrete occurrence of an X12 segment. The element records (see below) that follow a segment header record cannot be co-mingled with elements from other segments, including those segments with matching IDs.
- Element records identify an individual data element that occurs within a segment. Each element satisfies either an application requirement or X12 standard syntax. If one element in a segment is passed, all elements in the segment need to be passed in accordance with the IC requirement designator.

Two Categories of Record Information

The matrix contains two categories of information: IC application information and ASC X12 information.

- IC application information describes attributes outside the structure and syntax of the X12 standard.
- ASC X12 information is attached to each IC element. That information is extracted directly from the X12 standard dictionary and enables programmers to map the IC element into the standards.

Matrix Layout

The IC element matrix lists information in sixteen columns.

- IC Index Number (Index) enables designers and programmers to quickly cite a record in the matrix.
- IC Data Group Number (DG) is a number assigned by the IC developers. That number identifies an IC element with a group of elements that form a database table within the application data model. In order to quickly reference a table, Defense transportation developers label database tables with a Data Group number. For example, a "Bill To Address" may belong to the "PURCHASE ORDER" parent table with GRP = 10. A "Stop-off Delivery Address" may belong to the "ITEM DELIVERY" child table with GRP = 60.
- IC Data Element Name (Data Name) is a label for each data element using terminology common to the business environment. The IC element matrix identifies an element as a "Carrier Shipment ID". This is more concise than using the generic X12 label of "Shipment Identification Number". A segment header record identifies the segment ID in this field.
- IC Notes & Codes (DoD Information Notes and Codes) can contain application notes about various segment and element conditions or requirements. This column may also list both X12 standard codes and DoD unique codes. If the list is larger than 20 codes, it may appear in the section that contains Code Lists.
- IC Attributes (Attributes). When part of a segment header record, this column indicates the usage of the segment. When part of an element record, this column indicates the usage of the element within the segment, if the segment is used. Attributes may differ from those in the X12 standard. For example, if trading partners expect to exchange a purchase order number that has a specific length and structure, those attributes are decribed here. Attributes include requirement designator, data element type, minimum length and maximum length.
- X12 Transaction Set Table Number (Tabl).
- X12 Segment Position (Pos).
- X12 Requirement Designator (Req Des) . This column applies only to Segment Header type matrix records.
- X12 Maximum Usage (Max Use). This column applies only to Segment Header type matrix records.
- X12 Loop Repeat (Lp Rpt) indicates the number of times a loop may be used. This column applies only to Segment Header type matrix records.
- X12 Loop Level (Lp Lv). Loops may be nested within other loops. This column indicates the nesting level for each loop and applies only to Segment Header type matrix records.
- X12 Loop ID (Lp ID). This column applies only to Segment Header type matrix records.
- X12 Segment Reference Designator (Ref Des) . This column applies only to Element type matrix records.
- X12 Simple or Composite Data Element Number (DE#). This column applies only to Element type matrix records.

- X12 Simple Data Element Attributes (Attributes). Attributes listed include the data element requirement designator, data element type, minimum length and maximum length. This column applies only to Element type matrix records.
- X12 Composite Data Element Attributes ((Composite) Attributes) . Attributes listed include the simple data element number, requirement designator, data element type, minimum length and maximum length. This column applies only to Element type matrix records.

Sort Order of the Matrix

The IC elements in the matrix are presented in an order that enables programmers to generate application-to-translator interface files (also known as user-defined files or UDFs) that are syntactically correct to ASC X12 standards. IC elements are grouped under segment header records. When exchanging an IC element, the programmer needs to generate the entire segment under which the element is listed. Likewise, when exchanging a segment, the programmer needs to generate the entire loop structure to which the segment belongs.

APPLICATION NOTES

The IC element matrix in this section maps data requirements for the Motor Carrier Shipment Status Message. DoD derived the IC elements from the following sources:

- Analysis of existing carrier 214 Implementation Guides
- Analysis of the American Trucking Association (ATA) 214 Implementation Guide
- Analysis of sample data received from carriers into Global Transportation Network (GTN)
- Comments submitted by transportation activities involved in the DoD electronic data interchange effort

DoD INFORMATION				DoD	X12 SEGMENT INFORMATION							X12 ELEMENT INFORMATION			
Index	DG	Data Name	Notes and Codes	Recommended Attributes	Tabl	Pos	Req Des	Max Use	Lp Rpt	Lp Lv	Lp ID	Ref Des	DE #	(Simple) Attributes	(Composite) Attributes
1	10	**ST SEGMENT - Motor Carrier Shipment Status Header**		M	1	10	M	1							
2	10	Transaction Set Identifier Code	214 - Transportation Carrier Shipment Status Message	M ID 3/3	1	10		1				ST01	143	M ID 3/3	
3	10	Transaction Set Control Number	Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set. The application and structure of the control number must be agreed upon between trading partners. (For example, some applications use all nine digits where the first five might indicate a group control number and the last four represent the sequence of the transaction set within the functional group. Also, the entire nine digit field may simply represent the sequence of the transaction set generated by a trading partner.)	M AN 4/9	1	10		1				ST02	329	M AN 4/9	
4	10	**B10 SEGMENT - Carrier Shipment ID**		M	1	20	M	1							
					See X12 Standards Draft Version 4 Release 1 for explanation of Syntax Notes: 01= R0106; 01= E0105; 05= P0506										
5	10	Carrier Shipment ID	Only the carrier's PRO number will appear in B1001. Use B1006 if shipment is identified by air or rail waybill number. CONDITION: Use of either B1001 or B1006 is mandatory.	C AN 1/30	1	20		1				B1001	127	C AN 1/30	
6	10	Government Shipment ID	In this data element, enter the shipment ID generated by the shipper. That ID may be a lead TCN, GBL number, Velocity Number, or other type of identifier.	M AN 1/30	1	20		1				B1002	145	O AN 1/30	
7	10	Standard Carrier Alpha Code		M ID 2/4	1	20		1				B1003	140	M ID 2/4	
8	10	Reference Identification Qualifier	Required if B1006 is used. CHANGE NOTE: Length attribute corrected. AW - Air Waybill Number WY - Waybill Number	C ID 2/2	1	20		1				B1005	128	C ID 2/3	

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9	10	Reference Identification Only the carrier's air or rail waybill number will appear in B1006. Use B1001 if shipment is identified by a carrier's PRO number. CONDITION: Use of either B1001 or B1006 is mandatory.		C AN 1/30	1	20		1				B1006	127	C AN 1/30	
10	10	**L11 SEGMENT - Additional Shipment Identifiers** Use this segment to report identifying numbers in addition to the shipment ID.		C	1	30	O	300							
					See X12 Standards Draft Version 4 Release 1 for explanation of Syntax Notes: 01= R0103; 01= P0102										
11	10	Additional Shipment Identifier		M AN 1/30	1	30		300				L1101	127	C AN 1/30	
12	10	Additional Shipment Identifier Qualifier Use code value 'BM' for Commercial Bill of Lading as well as Government Bill of Lading. CHANGE NOTE: Code values 'IT' and 'ZZ' deleted per DM #444. BL - Government Bill of Lading BM - Bill of Lading Number C7 - Contract Line Item Number CT - Contract Number PO - Purchase Order Number RQ - Purchase Requisition Number TG - Transportation Control Number (TCN)		M ID 2/2	1	30		300				L1102	128	C ID 2/3	
13	10	**L11 SEGMENT - Commodity Code** Use to report shipment commodity code if available. If multiple commodity codes apply, use this segment to identify one commodity code (prevailing or lead commodity for shipment, pallet, or container). CHANGE NOTE: Note changed per DM #444.		C	1	30	O	300							
					See X12 Standards Draft Version 4 Release 1 for explanation of Syntax Notes: 01= R0103; 01= P0102										
14	10	Commodity Identification		M AN 1/30	1	30		300				L1101	127	C AN 1/30	
15	10	Commodity Identification Qualifier CH - Customer catalog number PG - Product Group STR - Standard Transportation Commodity Code (STCC) Replacement Code		M ID 2/3	1	30		300				L1102	128	C ID 2/3	

DoD INFORMATION				DoD	X12 SEGMENT INFORMATION							X12 ELEMENT INFORMATION			
Index	DG	Data Name	Notes and Codes	Recommended Attributes	Tabl	Pos	Req Des	Max Use	Lp Rpt	Lp Lv	Lp ID	Ref Des	DE #	(Simple) Attributes	(Composite) Attributes
16	10	Description		C AN 1/80	1	30		300				L1103	352	C AN 1/80	
17		**K1 SEGMENT - Additional Carrier Information** CHANGE NOTE: Segment added per DM #444.		C	1	40	O	10							
18		Free-Form Message		M AN 1/30	1	40		10				K101	61	M AN 1/30	
19		Free-Form Message		C AN 1/30	1	40		10				K102	61	O AN 1/30	
20	70	**N1 SEGMENT - Consignee Identification** Carriers are encouraged to provide the consignee clear text name (N102), consignee identification code (N103 + N104), consignee address information in the N3 segment, and consignee geographic location information in the N4 segment. If the carrier is unable to provide the consignee identification code, it must provide the clear text name (N102), address (N3), and geographic location information (N4).		M	1	50	O	1	10	1	0100				
					See X12 Standards Draft Version 4 Release 1 for explanation of Syntax Notes: 02= R0203; 03= P0304										
21	70	Consignee Identifier Code CN - Consignee		M ID 2/2	1	50		1	10	1	0100	N101	98	M ID 2/3	
22	70	Consignee Name Carriers are encouraged to provide this data if it is available. It must be provided if an Identification Code is not provided at N103 and N104.		C AN 1/60	1	50		1	10	1	0100	N102	93	C AN 1/60	
23	70	Identification Code Qualifier Required if N104 is used. 1 - D-U-N-S Number 10 - Department of Defense Activity Address Code (DODAAC) 27 - Government Bill Of Lading Office Code (GBLOC) 33 - Commercial and Government Entity (CAGE) 9 - D-U-N-S+4		C ID 1/2	1	50		1	10	1	0100	N103	66	C ID 1/2	
24	70	Consignee DODAAC/GBLOC/CAGE/D-U-N-S/D-U-N-S+4 Carriers are encouraged to provide this data if it is available.		C AN 4/13	1	50		1	10	1	0100	N104	67	C AN 2/80	

DoD INFORMATION				DoD	X12 SEGMENT INFORMATION							X12 ELEMENT INFORMATION			
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25	70	**N2 SEGMENT - Consignee Additional Name**		C	1	60	O	1	10	1	0100				
26	70	Consignee Additional Name		M AN 1/60	1	60		1	10	1	0100	N201	93	M AN 1/60	
27	70	**N3 SEGMENT - Consignee Address Information**		C	1	70	O	2	10	1	0100				
28	70	Consignee Address Information		M AN 1/55	1	70		2	10	1	0100	N301	166	M AN 1/55	
29	70	**N4 SEGMENT - Consignee Geographic Location Information**	If shipment is to a location other than the U.S. or Canada, carrier must provide the Consignee City Name (N401) and Consignee Country Code (N404). If shipment is to a location within the U.S. or to Canada, carrier must provide either the Consignee City Name (N401) and Consignee City/Province Code (N403) or the Consignee SPLC Qualifier (N405) and Consignee SPLC (N406).	M	1	80	O	1	10	1	0100				
					See X12 Standards Draft Version 4 Release 1 for explanation of Syntax Notes: 06= C0605										
30	70	Consignee City Name	Mandatory for all shipments to locations other than the U.S. and Canada. It is also mandatory for shipments within the U.S. and to Canada if SPLC is not provided in N405 and N406.	C AN 2/30	1	80		1	10	1	0100	N401	19	O AN 2/30	
31	70	Consignee State or Province Code	Mandatory for shipments to a U.S. or Canadian Province consignee if SPLC is not provided in N405 and N406.	C ID 2/2	1	80		1	10	1	0100	N402	156	O ID 2/2	
32	70	Consignee Zip/Postal Code		C ID 3/15	1	80		1	10	1	0100	N403	116	O ID 3/15	
33	70	Consignee Country Code	Mandatory for all shipments to a location outside the U.S. or Canada. Valid country codes are found in Codes for Representation of Names of Countries, ISO 3166- (Latest Release). The publication may be obtained from: American National Standards Institute 11 West 42nd Street, 13 Floor New York, NY 10036.	C ID 2/3	1	80		1	10	1	0100	N404	26	O ID 2/3	

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Index	DG	Data Name	Notes and Codes	Recommended Attributes	Tabl	Pos	Req Des	Max Use	Lp Rpt	Lp Lv	Lp ID	Ref Des	DE #	(Simple) Attributes	(Composite) Attributes
34	70	Consignee SPLC Qualifier	Required if N406 is used. SL - U.S. SPLC	C ID 2/2	1	80		1	10	1	0100	N405	309	C ID 1/2	
35	70	Consignee SPLC	Carriers are encouraged to provide this data on shipments to locations within the U.S. and Canada.	C AN 9/9	1	80		1	10	1	0100	N406	310	O AN 1/30	
36	71	**N1 SEGMENT - Shipper Identifier**	Carriers are encouraged to provide the shipper clear text name (N102), shipper identification code (N103 + N104), shipper address information in the N3 segment, and shipper geographic location information in the N4 segment. If the carrier is unable to provide the shipper identification code, it must provide the clear text name (N102), address (N3), and geographic location information (N4).	M	1	50	O	1	10	1	0100	See X12 Standards Draft Version 4 Release 1 for explanation of Syntax Notes: 02= R0203; 03= P0304			
37	71	Shipper Identifier Code	SH - Shipper	M ID 2/2	1	50		1	10	1	0100	N101	98	M ID 2/3	
38	71	Shipper Name	Carriers are encouraged to provide this data if it is available. It must be provided if an Identification Code is not provided at N103 and N104.	C AN 1/60	1	50		1	10	1	0100	N102	93	C AN 1/60	
39	71	Identification Code Qualifier	Required if N104 is used. 1 - D-U-N-S Number 10 - Department of Defense Activity Address Code (DODAAC) 27 - Government Bill Of Lading Office Code (GBLOC) 33 - Commercial and Government Entity (CAGE) 9 - D-U-N-S+4	C ID 1/2	1	50		1	10	1	0100	N103	66	C ID 1/2	
40	71	Shipper DODAAC/GBLOC/CAGE/D-U-N-S/D-U-N-S+4	Carriers are encouraged to provide this data if it is available.	C AN 4/13	1	50		1	10	1	0100	N104	67	C AN 2/80	
41	71	**N2 SEGMENT - Shipper Additional Name**		C	1	60	O	1	10	1	0100				

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Index	DG	Data Name	Notes and Codes	Recommended Attributes	Tabl	Pos	Req Des	Max Use	Lp Rpt	Lp Lv	Lp ID	Ref Des	DE #	(Simple) Attributes	(Composite) Attributes
42	71	Shipper Additional Name		M AN 1/60	1	60		1	10	1	0100	N201	93	M AN 1/60	
43	71	**N3 SEGMENT - Shipper Address Information**		C	1	70	O	2	10	1	0100				
44	71	Shipper Address Information		M AN 1/55	1	70		2	10	1	0100	N301	166	M AN 1/55	
45	71	**N4 SEGMENT - Shipper Geographic Location Information**	If shipment is OCONUS, carrier must provide the Shipper City Name (N401) and Shipper Country Code (N404). If shipment is CONUS or Canadian, carrier must provide either the Shipper City Name (N401) and Shipper City/Province Code (N402) or the Shipper SPLC Qualifier (N405) and Shipper SPLC (N406).	M	1	80	O	1	10	1	0100				
					See X12 Standards Draft Version 4 Release 1 for explanation of Syntax Notes: 06= C0605										
46	71	Shipper City Name	Mandatory for all shipments that originate outside the U.S. and Canada. It is also mandatory for shipments that originate within the U.S. and Canada if SPLC is not provided in N405 and N406.	C AN 2/30	1	80		1	10	1	0100	N401	19	O AN 2/30	
47	71	Shipper State or Province Code	Mandatory for all shipments that originate within the U.S. or Canada if SPLC is not provided in N405 and N406.	C ID 2/2	1	80		1	10	1	0100	N402	156	O ID 2/2	
48	71	Shipper Zip/Postal Code		C ID 3/15	1	80		1	10	1	0100	N403	116	O ID 3/15	
49	71	Shipper Country Code	Mandatory for all shipments that originate at a location outside the U.S. or Canada. Valid country codes are found in Codes for Representation of Names of Countries, ISO 3166- (Latest Release). The publication may be obtained from: American National Standards Institute 11 West 42nd Street, 13 Floor New York, NY 10036.	C ID 2/3	1	80		1	10	1	0100	N404	26	O ID 2/3	
50	71	Shipper SPLC Qualifier	Required if N406 is used. SL - U.S. SPLC	C ID 2/2	1	80		1	10	1	0100	N405	309	C ID 1/2	

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Index	DG	Data Name	Notes and Codes	Recommended Attributes	Tabl	Pos	Req Des	Max Use	Lp Rpt	Lp Lv	Lp ID	Ref Des	DE #	(Simple) Attributes	(Composite) Attributes
51	71	Shipper SPLC Carriers are encouraged to provide this data on shipments that originate outside the U.S. or Canada.		C AN 9/9	1	80		1	10	1	0100	N406	310	O AN 1/30	
52	71	**L11 SEGMENT - Internal Customer Number** Use this segment to report carrier's internal customer account number. CHANGE NOTE: Segment added per DM #444.		C	1	110	O	10	10	1	0100				
					See X12 Standards Draft Version 4 Release 1 for explanation of Syntax Notes: 01= R0103; 01= P0102										
53	71	Internal Customer Number CHANGE NOTE: Requirement attribute corrected.		M AN 1/30	1	110		10	10	1	0100	L1101	127	C AN 1/30	
54	71	Internal Customer Number Qualifier CHANGE NOTE: Requirement and length attributes corrected. IT - Internal Customer Number		M ID 2/2	1	110		10	10	1	0100	L1102	128	C ID 2/3	
55	71	**N1 SEGMENT - Party Who Signed Delivery Receipt**		C	1	50	O	1	10	1	0100				
					See X12 Standards Draft Version 4 Release 1 for explanation of Syntax Notes: 02= R0203; 03= P0304										
56	71	Party Who Signed Delivery Receipt Code N5 - Party Who Signed the Delivery Receipt		M ID 2/2	1	50		1	10	1	0100	N101	98	M ID 2/3	
57	71	Party Who Signed Delivery Receipt Required to satisfy syntax.		M AN 1/60	1	50		1	10	1	0100	N102	93	C AN 1/60	
58	10	**MS3 SEGMENT - LTL Interline Information** This segment is required if the LTL carrier can provide the interline information. The carrier currently reporting status will provide the entire routing sequence up to and including the time at which it reports status. For example, it needs to list all the carriers that handled the shipment along the route.		C	1	120	O	12							
					See X12 Standards Draft Version 4 Release 1 for explanation of Syntax Notes: 05= C0503										
59	10	Standard Carrier Alpha Code		M ID 2/4	1	120		12				MS301	140	M ID 2/4	

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Index	DG	Data Name	Notes and Codes	Recommended Attributes	Tabl	Pos	Req Des	Max Use	Lp Rpt	Lp Lv	Lp ID	Ref Des	DE #	(Simple) Attributes	(Composite) Attributes
60	10	Routing Sequence Code 1 - 1st Carrier after Origin Carrier 2 - 2nd Carrier after Origin Carrier 3 - 3rd Carrier after Origin Carrier B - Origin/Delivery Carrier (Any Mode) O - Origin Carrier (Air, Motor, or Ocean)		M ID 1/1	1	120		12				MS302	133	M ID 1/2	
61	10	City Name Provide city name or rail head of interline transfer point where identified carrier receives shipment, if available.		C AN 2/30	1	120		12				MS303	19	C AN 2/30	
62	10	Transportation Method/Type Code Refer to DE 91 for applicable code values.		C ID 1/2	1	120		12				MS304	91	O ID 1/2	
63	10	State or Province Code Provide this data if available.		C ID 2/2	1	120		12				MS305	156	O ID 2/2	
64	100	**LX SEGMENT - Shipment Status Event Loop** At least one occurrence of the LX loop needs to appear. Repeat the LX loop for each shipment status event. Upon reporting pickup status, the carrier is encouraged to report estimated delivery date. This calls for the carrier to generate two LX loops, one for each status event.		M	1	130	O	1	999999	1	0200				
65	100	Assigned Number This is a sequential number starting with one and incrementing by one for every occurrence of the LX segment.		M N0 1/6	1	130		1	999999	1	0200	LX01	554	M N0 1/6	
66	110	**AT7 SEGMENT - Shipment Status** Use one occurrence of the AT7 loop per LX loop.		M	1	140	O	1	10	2	0205				
					See X12 Standards Draft Version 4 Release 1 for explanation of Syntax Notes: 01= E0103; 01= P0102; 03= P0304; 06= C0605; 07= C0706										

DoD INFORMATION					X12 SEGMENT INFORMATION							X12 ELEMENT INFORMATION			
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67	110	Shipment Status Code	For shipments that don't experience any other status event identified in this code list during a 24 hour period, carriers are requested, if able, to report status ' X6 - En Route to Delivery Location'. When using shipment status code value 'X6', report the location of the shipment using the MS1 segment by either the city name/state/country code or longitude/latitude codes. Use migration code value 'CT' to indicate 'Customs Release'. CHANGE NOTE: Code value 'K1' added per DM #444. Migration code value 'CT' added per DM #445. AG - Estimated Delivery AH - Attempted Delivery AI - Shipment has been Reconsigned AM - Loaded on Truck BC - Storage in Transit CA - Shipment Cancelled D1 - Completed Unloading at Delivery Location J1 - Delivered to Connecting Line X5 - Arrived at Delivery Location Loading Dock X6 - En Route to Delivery Location A9 - Shipment Damaged AF - Carrier Departed Pick-up Location with Shipment K1 - Arrived at Customs L1 - Loading P1 - Departed Terminal Location S1 - Trailer Spotted at Consignee's Location SD - Shipment Delayed X1 - Arrived at Delivery Location X2 - Estimated Date and/or Time of Arrival at Consignee's Location X4 - Arrived at Terminal Location	M ID 2/2	1	140		1	10	2	0205	AT701	1650	C ID 2/2	
68	110	Shipment Status or Appointment Reason Code	If generating a "normal status" message, use code value 'NS'. Otherwise, use the appropriate status reason code from code list 1651. NS - Normal Status	M ID 2/2	1	140		1	10	2	0205	AT702	1651	C ID 2/2	

DoD INFORMATION				DoD	X12 SEGMENT INFORMATION							X12 ELEMENT INFORMATION			
Index	DG	Data Name	Notes and Codes	Recommended Attributes	Tabl	Pos	Req Des	Max Use	Lp Rpt	Lp Lv	Lp ID	Ref Des	DE #	(Simple) Attributes	(Composite) Attributes
69	110	Date of Status Event This is the date the status event occurred.		M DT 8/8	1	140		1	10	2	0205	AT705	373	C DT 8/8	
70	110	Time of Status Event Time status is mandatory for actual events and recommended for all other. This is the time status event occurred. This is local unless identified with a specific time zone in AT707. Use HHMM format.		C TM 4/4	1	140		1	10	2	0205	AT706	337	C TM 4/8	
71	110	Time Code Required if AT706 is used. The carrier will report code LT (Local Time) unless it is capable of reporting the time code of the location where the event occurred. The time code should be Greenwich Mean Time (GMT) or the time zone where the event occurred. If the zone or GMT are unavailable, carrier should use local time code. CD - Central Daylight Time CS - Central Standard Time CT - Central Time ED - Eastern Daylight Time ES - Eastern Standard Time ET - Eastern Time GM - Greenwich Mean Time LT - Local Time MD - Mountain Daylight Time MS - Mountain Standard Time MT - Mountain Time PD - Pacific Daylight Time PS - Pacific Standard Time PT - Pacific Time		C ID 2/2	1	140		1	10	2	0205	AT707	623	O ID 2/2	

DoD INFORMATION				DoD	X12 SEGMENT INFORMATION							X12 ELEMENT INFORMATION			
Index	DG	Data Name	Notes and Codes	Recommended Attributes	Tabl	Pos	Req Des	Max Use	Lp Rpt	Lp Lv	Lp ID	Ref Des	DE #	(Simple) Attributes	(Composite) Attributes
72	110	**MS1 SEGMENT - Status Location** This segment is required for all status events (AT701) except for code values 'A9', 'AG', and 'AI'. When using periodic reporting procedures, indicate location using MS104, 05, 06, and 07. Otherwise, report location using MS101, 02, and 03. When using MS101, 02, and 03, for status events generated within CONUS and Canada, MA101 and MA102 are required. For status events generated outside of CONUS, MS101 and MS103 are required. In either case, provide MS102, if available. CHANGE NOTE: Attribute change per DM #444. Note added per DM #444.		C	1	143	O	1	10	2	0205				
					See X12 Standards Draft Version 4 Release 1 for explanation of Syntax Notes: 01= L010203; 01= E0104; 02= C0201; 03= C0301; 04= P0405; 06= C0604; 07= C0705									
73	110	City Name		C AN 2/30	1	143		1	10	2	0205	MS101	19	C AN 2/30	
74	110	State or Province Code		C ID 2/2	1	143		1	10	2	0205	MS102	156	C ID 2/2	
75	110	Country Code Valid country codes are found in Codes for Representation of Names of Countries, ISO 3166- (Latest Release). The publication may be obtained from: American National Standards Institute 11 West 42nd Street, 13 Floor New York, NY 10036.		C ID 2/3	1	143		1	10	2	0205	MS103	26	C ID 2/3	
76	110	Longitude Coordinates If the carrier has implemented this technology, it is encouraged to report this data for 24 hour periodic reporting. Qualify the longitude coordinates in the MS106.		C ID 7/7	1	143		1	10	2	0205	MS104	1654	C ID 7/7	
77	110	Latitude Coordinates If the carrier has implemented this technology, it is encouraged to report this data for 24 hour periodic reporting. Qualify the latitude coordinates in the MS107.		C ID 7/7	1	143		1	10	2	0205	MS105	1655	C ID 7/7	
78	110	Direction Identifier Code E - East W - West		C ID 1/1	1	143		1	10	2	0205	MS106	1280	O ID 1/1	

DoD INFORMATION					X12 SEGMENT INFORMATION							X12 ELEMENT INFORMATION			
Index	DG	Data Name	Notes and Codes	DoD Recommended Attributes	Tabl	Pos	Req Des	Max Use	Lp Rpt	Lp Lv	Lp ID	Ref Des	DE #	(Simple) Attributes	(Composite) Attributes
79	110	Direction Identifier Code	N - North S - South	C ID 1/1	1	143		1	10	2	0205	MS107	1280	O ID 1/1	
80	110	**MS2 SEGMENT - Conveying Equipment Identification**	Provide this data when conveying equipment identifiers are available.	C	1	146	O	1	10	2	0205	See X12 Standards Draft Version 4 Release 1 for explanation of Syntax Notes: 01= P0102; 04= C0402			
81	110	Standard Carrier Alpha Code		M ID 2/4	1	146		1	10	2	0205	MS201	140	C ID 2/4	
82	110	Equipment Number		M AN 1/10	1	146		1	10	2	0205	MS202	207	C AN 1/10	
83	110	Equipment Description Code	Refer to DE 40 for applicable code values. CC - Container resting on a Chassis	M ID 2/2	1	146		1	10	2	0205	MS203	40	O ID 2/2	
84	110	**L11 SEGMENT - Status Location Code**	Carriers are encouraged to provide either status location SPLC or postal code data where available. This segment may occur once per shipment status event (LX Loop). CHANGE NOTE: Position changed from 110 to 150 per DM #444. Note added 150 per DM #444.	C	1	150	O	10	999999	1	0200	See X12 Standards Draft Version 4 Release 1 for explanation of Syntax Notes: 01= R0103; 01= P0102			
85	110	SPLC or Postal Code		M AN 3/15	1	150		10	999999	1	0200	L1101	127	C AN 1/30	
86	110	Status Location Qualifier	Use code value 'LU' to indicate Postal Zip Code. CHANGE NOTE: Missing code values added per DM #474.. LU - Location Number SPL - Standard Point Location Code (SPLC)	M ID 2/3	1	150		10	999999	1	0200	L1102	128	C ID 2/3	
87	110	**L11 SEGMENT - Stop-Off Sequence Number**	This segment is required when providing stop-off shipment status. This segment may occur once per shipment status event (LX Loop). CHANGE NOTE: Position changed from 30 to 150 per DM #444. Note added 150 per DM #444.	C	1	150	C	10	999999	1	0200	See X12 Standards Draft Version 4 Release 1 for explanation of Syntax Notes: 01= R0103; 01= P0102			

DoD INFORMATION				DoD	X12 SEGMENT INFORMATION							X12 ELEMENT INFORMATION			
Index	DG	Data Name	Notes and Codes	Recommended Attributes	Tabl	Pos	Req Des	Max Use	Lp Rpt	Lp Lv	Lp ID	Ref Des	DE #	(Simple) Attributes	(Composite) Attributes
88	110	Stop-Off Sequence Number Enter stop-off sequence number.		M AN 1/30	1	150		10	999999	1	0200	L1101	127	M AN 1/30	
89	110	Stop-Off Sequence Number Qualifier CHANGE NOTE: Missing code value added per DM #474.		M ID 2/2	1	150		10	999999	1	0200	L1102	128	M ID 2/3	
90	110	SPLC		C AN 9/9	1	150		10	999999	1	0200	L1103	352	C AN 1/80	
91	100	**Q7 SEGMENT - Lading Information** The carrier is encouraged to provide this data if available. This segment may occur once per shipment status event (LX Loop).c		C	1	160	O	10	999999	1	0200				
					See X12 Standards Draft Version 4 Release 1 for explanation of Syntax Notes: 02= C0203										
92	100	Lading Exception Code A - All Short D - Damaged E - Entire Shipment Refused O - Overage P - Partial Shipment W - Wrong Product		M ID 1/1	1	160		10	999999	1	0200	O701	33	M ID 1/1	
93	100	Packaging Form Code The carrier is encouraged to provide this data if available. Refer to DE 211 for acceptable code values.		C ID 3/3	1	160		10	999999	1	0200	O702	211	O ID 3/3	
94	100	Lading Quantity		C N0 1/7	1	160		10	999999	1	0200	O703	80	C N0 1/7	
95	100	**K1 SEGMENT - Additional Carrier Information** Carriers are encouraged to report information for comment or special instruction.		C	1	170	O	10	999	1	0200				
96	100	Free-Form Message		M AN 1/30	1	170		10	999	1	0200	K101	61	M AN 1/30	
97	100	Free-Form Message		C AN 1/30	1	170		10	999	1	0200	K102	61	O AN 1/30	

DoD INFORMATION				DoD	X12 SEGMENT INFORMATION							X12 ELEMENT INFORMATION			
Index	DG	Data Name	Notes and Codes	Recommended Attributes	Tabl	Pos	Req Des	Max Use	Lp Rpt	Lp Lv	Lp ID	Ref Des	DE #	(Simple) Attributes	(Composite) Attributes
98	100	**AT5 SEGMENT - Special Handling** Carriers are encouraged to report this information if available. This segment may occur once per shipment status event (LX Loop). CHANGE NOTE: Note added 150 per DM #444.		C	1	180	O	10	999	1	0200				
					See X12 Standards Draft Version 4 Release 1 for explanation of Syntax Notes: 01= E0103; 02= E0203										
99	100	Special Handling Code Refer to DE 152 for applicable code values.		C ID 2/3	1	180		10	999	1	0200	AT501	152	C ID 2/3	
100	100	Special Services Code Refer to DE 560 for applicable code values.		C ID 2/10	1	180		10	999	1	0200	AT502	560	C ID 2/10	
101	100	Special Handling Description		C AN 2/30	1	180		10	999	1	0200	AT503	153	C AN 2/30	
102	100	**AT8 SEGMENT - Weight Information** The carrier is encouraged to provide this data if available. This segment may occur once per shipment status event (LX Loop). CHANGE NOTE: Note added 150 per DM #444.		C	1	200	O	10	999999	1	0200				
					See X12 Standards Draft Version 4 Release 1 for explanation of Syntax Notes: 01= P010203; 06= P0607										
103	100	Weight Qualifier Required if AT803 is used. Use migration code value 'WX' to indicate Net Explosive Weight. CHANGE NOTE: X12 Data Maintenance will be submitted to add code value 'WX - Net Explosive Weight' to DE 187. T - Tare Weight A3 - Shippers Weight B - Billed Weight FR - Freight Weight G - Gross Weight N - Actual Net Weight PA - Pallet Weight SK - Skid Weight		C ID 1/2	1	200		10	999999	1	0200	AT801	187	C ID 1/2	

DoD INFORMATION				DoD	X12 SEGMENT INFORMATION							X12 ELEMENT INFORMATION			
Index	DG	Data Name	Notes and Codes	Recommended Attributes	Tabl	Pos	Req Des	Max Use	Lp Rpt	Lp Lv	Lp ID	Ref Des	DE #	(Simple) Attributes	(Composite) Attributes
104	100	Weight Unit Code Required if AT803 is used. K - Kilograms L - Pounds S - Short Ton		C ID 1/1	1	200		10	999999	1	0200	AT802	188	C ID 1/1	
105	100	Weight		C R 1/10	1	200		10	999999	1	0200	AT803	81	C R 1/10	
106	100	Lading Quantity		C N0 1/7	1	200		10	999999	1	0200	AT804	80	O N0 1/7	
107	100	Lading Quantity		C N0 1/7	1	200		10	999999	1	0200	AT805	80	O N0 1/7	
108	100	Volume Unit Qualifier Required if AT807 is used. Refer to DE 184 for applicable code values.		C ID 1/1	1	200		10	999999	1	0200	AT806	184	C ID 1/1	
109	100	Volume		C R 1/8	1	200		10	999999	1	0200	AT807	183	C R 1/8	
110	900	**SE SEGMENT - Motor Carrier Shipment Status Trailer**		M	1	610	M	1							
111	900	Number of Included Segments Total segments in this transaction set including the ST and SE segments.		M N0 1/10	1	610		1				SE01	96	M N0 1/10	
112	900	Transaction Set Control Number This data element ends the transaction set and should match the number that appears in the ST02 that begins the transaction set.		M AN 4/9	1	610		1				SE02	329	M AN 4/9	

Section 5.0

IC ELEMENTS IN EDI FORMAT

Contents

This section contains seven examples of the 214 transaction set as used for the 214 Interchange Convention.

The first four examples illustrate the use of the 214 for the carriers to report shipment pickup, arrival and departure from a terminal or transshipment point, and the delivery to a delivery location (i.e. POE) or delivery to the consignee. The fifth example illustrates the preferred method of identifying the consignee and shipper by using only the DoDAAC in the N1 segment. The sixth example illustrates a shipment that does not experience a status event identified in the AT701 code list during a 24 hour period. The seventh example illustrates reporting an estimated arrival date/time at the delivery location when the carrier picks up the shipment.

Example 1: Carrier Shipment Pickup

Example 2: Carrier Arrived Terminal (Transshipment)

Example 3: Carrier Departed Terminal (Transshipment)

Example 4: Shipment Arrived Delivery (Consignee) Location

Example 5: Global Transportation Network Preferred Shipper and Consignee Identification

Example 6 - TL 24 Hour Periodic Reporting

Example 7 - Carrier Picks Up Shipment and Reports Estimated Arrival Time

How to Read the Examples

Each example approximates a complete X12 transaction. Each example begins with a transaction header segment (ST) and ends with a transaction trailer segment (SE) and represents a complete transaction unless otherwise noted. Data element separators are delimited with a tilde (“~”). Sub-element separators are delimited with a colon (“:”). The new line (“n/l”) character delimits end of segment. Notes in **bold text** explain key segments in transaction.

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Example 1 – Carrier Shipment Pickup

ST~214~0001 n/l	**Transaction set header**
B10~1350227488~G6950395~RDWY n/l	**Carrier Shipment ID, Government Shipment ID, SCAC**
N1~CN~NAVAL AIR STATION JACKSONVILLE n/l	**Consignee Name**
N2~TRANSPORTATION OFFICER n/l	**Consignee Additional Name**
N3~BLDG 111 DOOR 24 n/l	**Consignee Additional Address**
N4~JACKSONVILLE~FL~322120000 n/l	**Consignee City Name, State, Postal Code, Country**
N1~SH~Defense Distribution Region West n/l	**Shipper, Name, Identification Code Qualifier, DoDAAC**
N2~SAN DIEGO n/l	**Shipper Additional Name**
N3~2680 WODEN ST BLDG 3304 n/l	**Shipper Additional Address**
N4~ SAN DIEGO~CA~92136~US n/l	**Shipper City Name, State, Postal Code, Country**
LX~001 n/l	**Starts the LX Loop**
AT7~AF~BG~~~19980219~1015~PD n/l	**Carrier Pick-Up Delivery**
MS1~SAN DIEGO~CA~US n/l	**Event Location**
MS2~RDWY~123456~TF n/l	**Trailer Number and type carrying the shipment**
Q7~O~BOX~1 n/l	**Lading Exception**
AT8~N~L~500~3~~E~15 n/l	**Shipment Weight and Volume**
SE~17~0001 n/l	**Transaction Set Trailer**

Example 2 – Carrier Arrived Terminal (Transshipment)

ST~214~0001 n/l	**Transaction set header**
B10~1350227488~G6950395~RDWY n/l	**Carrier Shipment ID, Government Shipment ID, SCAC**
N1~CN~NAVAL AIR STATION JACKSONVILLE n/l	**Consignee Name**
N2~TRANSPORTATION OFFICER n/l	**Consignee Additional Name**
N3~BLDG 111 DOOR 24 n/l	**Consignee Additional Address**
N4~JACKSONVILLE~FL~322120000 n/l	**Consignee City Name, State, Postal Code, Country**
N1~SH~Defense Distribution Region West n/l	**Shipper, Name, Identification Code Qualifier, DoDAAC**
N2~SAN DIEGO n/l	**Shipper Additional Name**
N3~2680 WODEN ST BLDG 3304 n/l	**Shipper Additional Address**

N4~ SAN DIEGO~CA~92136~US n/l	**Shipper City Name, State, Postal Code, Country**
LX~001 n/l	**Starts the LX Loop**
AT7~X4~BG~~~1998021~1600~CD n/l	**Carrier Pick-Up Delivery**
MS1~DALLAS~TX~US n/l	**Event Location**
MS2~RDWY~123456~TF n/l	**Trailer Number and type carrying the shipment**
Q7~O~BOX~1 n/l	**Lading Exception**
AT8~N~L~500~3~~E~15 n/l	**Shipment Weight and Volume**
SE~17~0001 n/l	**Transaction Set Trailer**

Example 3 – Carrier Departed Terminal (Transshipment)

ST~214~0001 n/l	**Transaction set header**
B10~1350227488~G6950395~RDWY n/l	**Carrier Shipment ID, Government Shipment ID, SCAC**
N1~CN~NAVAL AIR STATION JACKSONVILLE n/l	**Consignee Name**
N2~TRANSPORTATION OFFICER n/l	**Consignee Additional Name**
N3~BLDG 111 DOOR 24 n/l	**Consignee Additional Address**
N4~JACKSONVILLE~FL~322120000 n/l	**Consignee City Name, State, Postal Code, Country**
N1~SH~Defense Distribution Region West n/l	**Shipper Name**
N2~SAN DIEGO n/l	**Shipper Additional Name**
N3~2680 WODEN ST BLDG 3304 n/l	**Shipper Additional Address**
N4~ SAN DIEGO~CA~92136~US n/l	**Shipper City Name, State, Postal Code, Country**
LX~001 n/l	**Starts the LX Loop**
AT7~P1~BG~~~1998021~1900~CD n/l	**Carrier Pick-Up Delivery**
MS1~DALLAS~TX~US n/l	**Event Location**
MS2~RDWY~791234~TF n/l	**Trailer Number and type carrying the shipment**
Q7~O~BOX~1 n/l	**Lading Exception**
AT8~N~L~500~3~~E~15 n/l	**Shipment Weight and Volume**
SE~17~0001 n/l	**Transaction Set Trailer**

Example 4 - Shipment Arrived Destination (Consignee)

ST~214~0001 n/l	**Transaction set header**
B10~1350227488~G6950395~RDWY n/l	**Carrier Shipment ID, Government Shipment ID, SCAC**
N1~CN~NAVAL AIR STATION JACKSONVILLE n/l	**Consignee Name**
N2~TRANSPORTATION OFFICER n/l	**Consignee Additional Name**
N3~BLDG 111 DOOR 24 n/l	**Consignee Additional Address**
N4~JACKSONVILLE~FL~322120000 n/l	**Consignee City Name, State, Postal Code, Country**
N1~SH~Defense Distribution Region West n/l	**Shipper Name**
N2~SAN DIEGO n/l	**Shipper Additional Name**
N3~2680 WODEN ST BLDG 3304 n/l	**Shipper Additional Address**
N4~ SAN DIEGO~CA~92136~US n/l	**Shipper City Name, State, Postal Code, Country**
LX~001 n/l	**Starts the LX Loop**
AT7~X1~BG~~~1998023~1900~CD n/l	**Carrier Arrived at Delivery Location**
MS1~JACKSONVILLE~FL~US n/l	**Event Location**
MS2~RDWY~791234~TF n/l	**Trailer Number and type carrying the shipment**
Q7~O~BOX~1 n/l	**Lading Exception**
AT8~N~L~500~3~~E~15 n/l	**Shipment Weight and Volume**
SE~17~0001 n/l	**Transaction Set Trailer**

Example 5 - Preferred Shipper and Consignee Identification

ST~214~0001 n/l	**Transaction set header**
B10~1350227488~G6950395~RDWY n/l	**Carrier Shipment ID, Government Shipment ID, SCAC**
N1~CN~ 10~ V09047 n/l	**Consignee DoDAAC**
N1~SH~ 10~ SW3218 n/l	**Shipper DoDAAC**
LX~001 n/l	**Starts the LX Loop**
AT7~X1~BG~~~1998021~1900~CD n/l	**Carrier Arrived Transshipment Location**
MS1~DALLAS~TX~US n/l	**Event Location**
MS2~RDWY~791234~TF n/l	**Trailer Number and type carrying the shipment**
Q7~O~BOX~1 n/l	**Lading Exception**
AT8~N~L~500~3~~E~15 n/l	**Shipment Weight and Volume**

SE~11~0001 n/l	**Transaction Set Trailer**

Example 6 - TL 24 Hour Periodic Reporting

ST~214~0001 n/l	**Transaction Set Header**
B10~1350227488~G6950395~HJBT n/l	**Carrier Shipment ID, Government Shipment ID, SCAC**
N1~CN~10~V09047 n/l	**Consignee DoDAAC**
N1~SH~10~ SW3218 n/l	**Shipper DoDAAC**
LX01~001 n/l	**Starts the LX Loop**
AT7~X6~BG~~~19980220~0825~PD n/l	**Carrier Enroute to Delivery Location**
MS1~LAS CRUCES~NM~US~~~~~n/l	**Event Location**
AT8~N~L~25000 n/l	**Shipment Weight**
SE~9~0001 n/l	**Transaction Set Trailer**

Example 7 - Carrier Picks Up Shipment and Reports Estimated Arrival Time

ST~214~0001 n/l	**Transaction set header**
B10~1350227488~G6950395~RDWY n/l	**Carrier Shipment ID, Government Shipment ID, SCAC**
N1~CN~ ~10~ V09047 n/l	**Consignee DoDAAC**
N1~SH~ ~10~ SW3218 n/l	**Shipper DoDAAC**
LX~001 n/l	**Starts the LX Loop**
AT7~AF~BG~~~19980219~1015~PD n/l	**Carrier Pick-Up Delivery**
MS1~SAN DIEGO~CA~US n/l	**Event Location**
MS2~RDWY~123456~TF n/l	**Trailer Number and type carrying the shipment**
LX~002 n/l	**Starts the LX Loop**
AT7~AG~BG~~~19980223~1600~ED n/l	**Estimated Arrival Time at Jacksonville FL**
MS1~JACKSONVILLE~FL~US n/l	**Event Location**
Q7~O~BOX~1 n/l	**Lading Exception**
AT8~N~L~500~3~~E~15 n/l	**Shipment Weight and Volume**
SE~14~0001 n/l	**Transaction Set Trailer**